

CLAIMS

I claim as my invention:

1. A golf ball comprising:

a core having a diameter of 1.5 inches to 1.56 inches; and

5 a cover encompassing the core, the cover having a surface including at least eleven sets of dimples covering at least eighty-seven percent of the surface, each set of dimples differing from any other set of dimples in at least one of a dimple diameter, an entry radius and an entry angle.

10 2. The golf ball according to claim 1 wherein the at least eleven sets of dimples total at least 382 dimples.

3. The golf club according to claim 1 wherein the sets of dimples differ in dimple diameter, and at least one set of dimples includes a first dimple having a first entry radius and a second
15 dimple having a second entry radius, the first entry radius differing from the second entry radius.

4. The golf club according to claim 1 wherein the sets of dimples differ in dimple diameter, and at least one set of dimples includes a first dimple having a first entry angle and a second
dimple having a second entry angle, the first entry angle differing from the second entry angle.

20 5. The golf club according to claim 1 wherein the sets of dimples differ in dimple diameter, and at least one set of dimples includes a first dimple having a first chord depth and a second

dimple having a second chord depth, the first chord depth differing from the second chord depth.

6. The golf club according to claim 1 wherein the different dimple diameters range between 0.100 inch and 0.184 inch.

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7. The golf club according to claim 1 wherein eighteen sets of dimples differ in entry radius.

8. The golf ball according to claim 1 wherein the core is composed of a polybutadiene material and the cover is composed of an ionomer blend material.

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9. The golf ball according to claim 1 wherein the golf ball has a lift coefficient greater than 0.19 at a Reynolds number of 70,000 and 2000 rpm, and a drag coefficient less than 0.230 at a Reynolds number of 180,000 and 3000 rpm.

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10. The golf ball according to claim 1 wherein the cover has a thickness of 0.05 inch to 0.10 inch.

11. A golf ball comprising:

a core having a diameter of 1.5 inches to 1.56 inches; and

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a cover encompassing the core, the cover having a surface including at least eleven sets of dimples covering at least eighty-seven percent of the surface, each set of dimples having a different dimple diameter than any other set of dimples, the dimple diameters ranging

between 0.100 inch and 0.184 inch.

12. The golf ball according to claim 11 wherein the golf ball has a lift coefficient greater than 0.20 at a Reynolds number of 70,000 and 2000 rpm, and a drag coefficient less than 0.235 at a
5 Reynolds number of 180,000 and 3000 rpm.

13. The golf ball according to claim 11 wherein at least one set of dimples includes a first dimple having a first chord depth and a second dimple having a second chord depth, the first chord depth differing from the second chord depth.

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14. The golf ball according to claim 11 wherein at least one set of dimples includes a first dimple having a first entry angle and a second dimple having a second entry angle, the first entry angle differing from the second entry angle.

- 15 15. The golf ball according to claim 10 wherein at least one set of dimples includes a first dimple having a first entry radius and a second dimple having a second entry radius, the first entry radius differing from the second entry radius.